

Jack Blair

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● ABOUT ME

(New Zealand Citizen/Greek Resident)

I am a skilled professional with experience working with/analyzing large-scale highly sensitive health and financial datasets. My expertise includes implementing machine learning models, building complex data workflows, engaging and communicating with stakeholders and leaders, and delivering domain relevant insights with sound data visualization. I am dedicated to leading and promoting high quality products and actionable insights that drive tangible positive change.

● WORK EXPERIENCE

02/2023 – 02/2025 Wellington, New Zealand

INTEGRITY INSIGHTS ANALYST ACCIDENT COMPENSATION CORPORATION (ACC)

In an agile environment, utilizing **SQL, Python, R, Git, DBT, Jira and Excel** -

Created and maintained data workflows to aggregate and report on anomalous and/or fraudulent payments

- working with stakeholders, risk management, and privacy teams to create new data models addressing current business needs/concerns
- maintaining legacy models, communicating as needed with stakeholders to implement fixes and/or improvements

Completed ad-hoc data requests to support interventions and investigations

- translating stakeholder needs into SQL queries / data reports to aid in decision making and evidence gathering
- earning/billing reports, over-payment and savings calculations, comparative analysis

Contributed to Machine Learning efforts to solve complex business problems

- helping implement a Positive Unlabeled (PU) model to predict the severity and value of fraud within the organization
- creating a Neural Network Auto-encoder model to detect anomalous travel requests by analyzing the reconstruction loss/error

Consulted on highly confidential investigations (both internally and externally)

- conducting exhaustive analysis, compiling reports and giving formal statements to be used in legal proceedings
- example: exploit in newly implemented system was abused, quick analysis showed the who and the how, saving millions in potential losses
- example: fraudulent overcharging from travel partner, analysis showed severe over-payment, resulting report caused company to pay the organization back

Supported the efficiency and sustainability of our teams work through process improvement and documentation

- translating manual processes (often spreadsheets) into automated scripts (usually Python)
- documenting important business functions and owned products/workflows to eliminate key person dependency

2016 – 2020

PREVIOUS WORK EXPERIENCES

Feb, 2020 - Nov, 2020 : Checkout Assistant, Countdown, Karori, Wellington

Mar, 2019 - Feb, 2020 : Cleaner, Les Mills Gym, Taranaki Street, Wellington

Jul, 2018 - Sep, 2018 : Frozen Goods Assistant, Pak'n Save, Sylvia Park, Auckland

Feb, 2016 - Jul, 2018 : Grocery Assistant, New World, Alexandra, Central Otago

● EDUCATION AND TRAINING

02/2020 – 11/2022 Wellington, New Zealand

BACHELOR OF SCIENCE, MAJOR IN DATA SCIENCE, MINOR IN COMPUTER SCIENCE Victoria University of Wellington

Website <https://www.wgtn.ac.nz/>

● LANGUAGE SKILLS

Mother tongue(s): **ENGLISH**

● SKILLS

Snowflake (Cloud-based Data Storage and Analytics Service) | DBT (Data Build Tool) | SAS-EG | SQL | Python | R Programming language | Git (Github / Gitlab) | Atlassian stack (Jira, Confluence, ...) | MS Office (Word, Excel-VBA, Power Point) | Statistical Analysis | Machine Learning | Data Science | Numpy, Pandas, Scikit Learn | Data Visualization | Data Transformation | Data Analysis

● PROJECTS

2022

(University Project) Machine Learning Exercise - 2D Image Classification

Using python and the pytorch/keras packages:

- designed and implemented a 2D convolution neural network (CNN) for the purpose of classifying 2D images of three different classes (cherry, strawberry and tomato).
- Achieved good model accuracy of up to 70% with only hyper parameter tuning and trying various optimizers/ activation functions.

2022

(University Project) Super market queue study - Group Project

In a group of four team members, conducted a study on a real life super market queuing system.

- observed a real life queuing system in a super market, noting down when a customer enters and leaves a queue.
- conducted queue analysis using various models, doing both theoretical and actual analysis to get to a reasonable conclusion as a team.
- simulated in SimPy, results compiled using LaTeX.